



Engineering Materials and Their Applications

By Richard A. Flinn, Paul K. Trojan

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This edition of the classic text/reference book has been updated and revised to provide balanced coverage of metals, ceramics, polymers and composites. The first five chapters assess the different structures of metals, ceramics and polymers and how stress and temperature affect them. Demonstrates how to optimize a material's structure by using equilibrium data (phase diagrams) and nonequilibrium conditions, especially precipitation hardening. Discusses the structures, characteristics and applications of the important materials in each field. Considers topics common to all materials--corrosion and oxidation, failure analysis, processing of electrical and magnetic materials, materials selection and specification. Contains special chapters on advanced and large volume engineering materials plus abundant examples and problems.

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